	SampleName	*,,	Inj, Volume	Channel:	⊵*Dilution
1	K63 in PBS		100,00	214nm	4,00
2	K63 in Chaps 0,25%		100,00	214nm	4,00
3	K63 In citrate		100,00	214nm	4,00

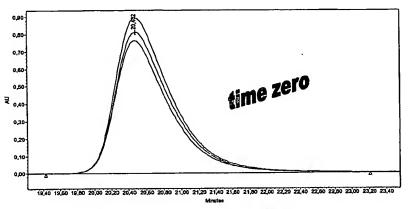


Figure 1A



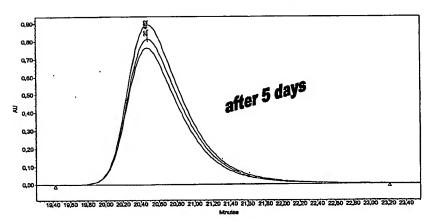


Figure 1B

Figure 1C

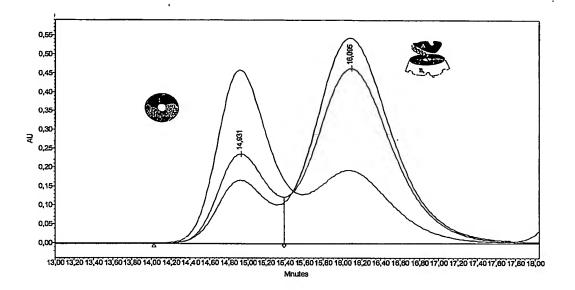
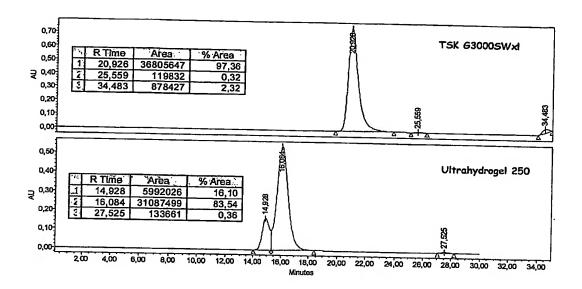
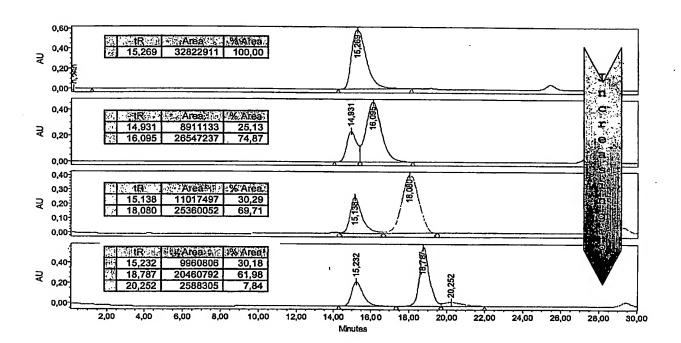


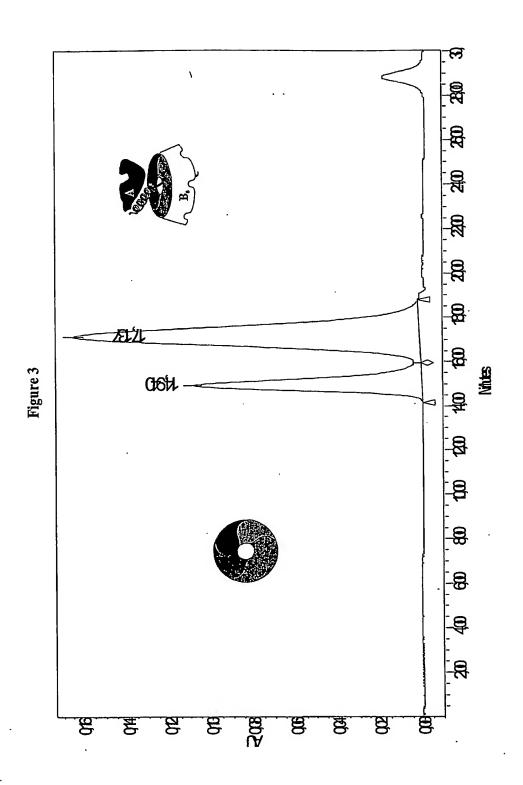
Figure 1D



Figures 2A-2D

Sample Name	Date Acquired	Eluent	Injection Channel	Ollution
15 PBS 5gg agitazione	09/04/2003 9.55.19	KPi 50 mM + Na2SO4 50 mM pH 7,2	100.00   214nm	4,00
2: PBS 5gg agitazione	08/04/2003 13.53.06	KPI 100 mM + Na2SO4 100 mM pH 7,2	100,00 214nm	4,00
3: PBS 5gg agitazione	09/04/2003 15.07.11	KPI 250 mM + Na2SO4 100 mM pH 7,2	100.00 214nm	4,00
43 PBS 5gg agitazione	10/04/2003 9.51.42	KPI 200 mM + Na2SO4 200 mM pH 7,2	100,00 214nm	4,00





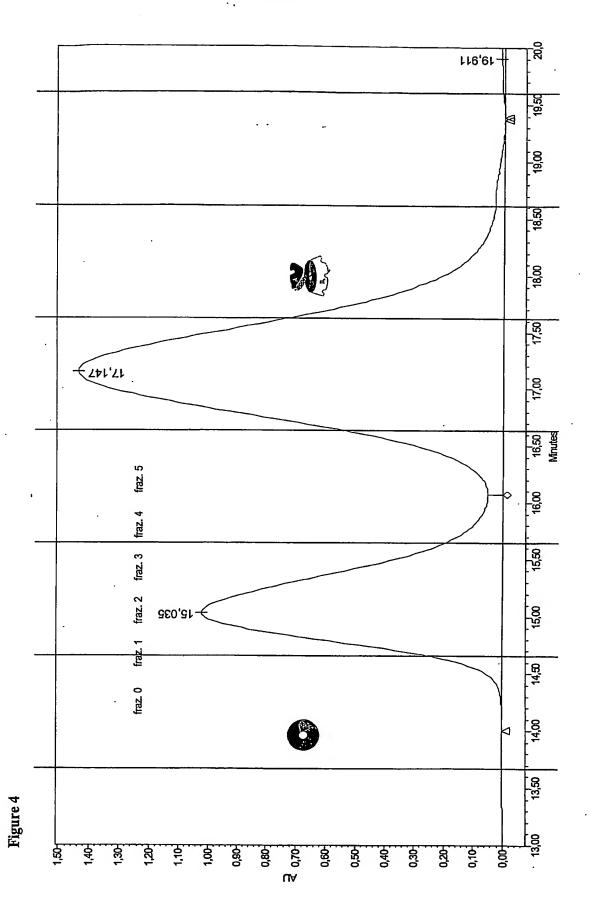


Figure 5A

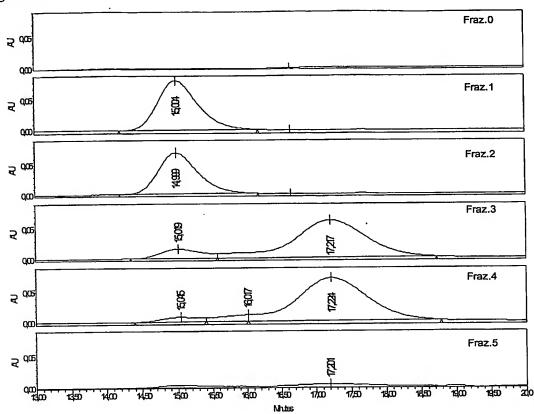


Figure 5B

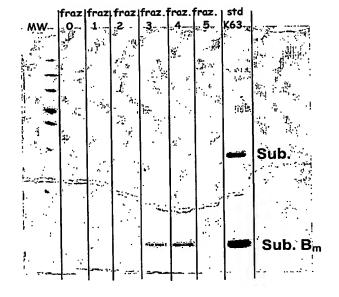


Figure 5D

Figure 5C

	Standard proteins	teins	Rt (min)	$M_{\rm w}$ (Da)
<del>, , , , , , , , , , , , , , , , , , , </del>	Thyroglobulin (bovine)	wine)	11,62	000.699
?	Apoferritin		13,13	476.316
	B-amylase		13,58	224.340
	Alcohol Deydrogenase	enase	14,10	146.980
	BSA		14,67	66.800
	Carbonic Anhydrase	ase	16,22	29.023
	Sample proteins		र्स (min)	M <sub>w</sub> exp.
	CRM		15,23	57.099
\alpha	K63 AB <sub>5</sub>		17,26	9.611
8	K63 B <sub>5</sub>		15,07	65.607

CONTROL OF THE PROPERTY OF TH

뙲 red) (bold K63 Superimposition of standard proteins, CRM $_{39}$  reference (bold blue), calibration curve used for apparent MM determination.

8.0 90 Debye Plot - 0423E\_01 9.4 07 R(theta)X\*o

Figure 51



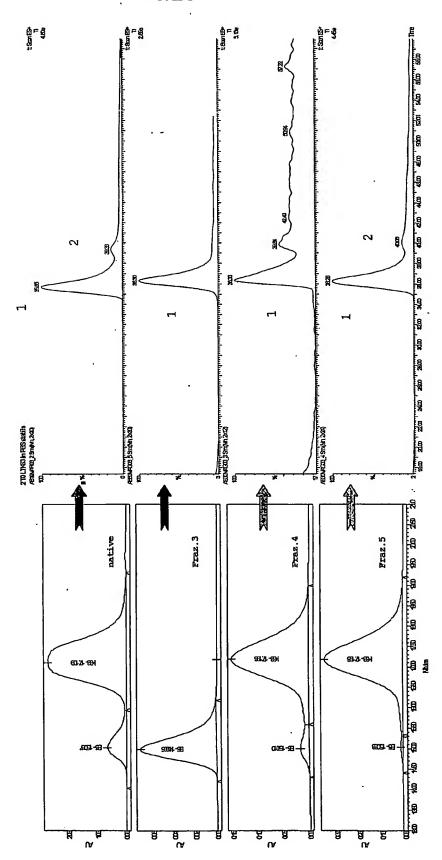


Figure 5F(b)

Figure 5F (a)

Figure 5G

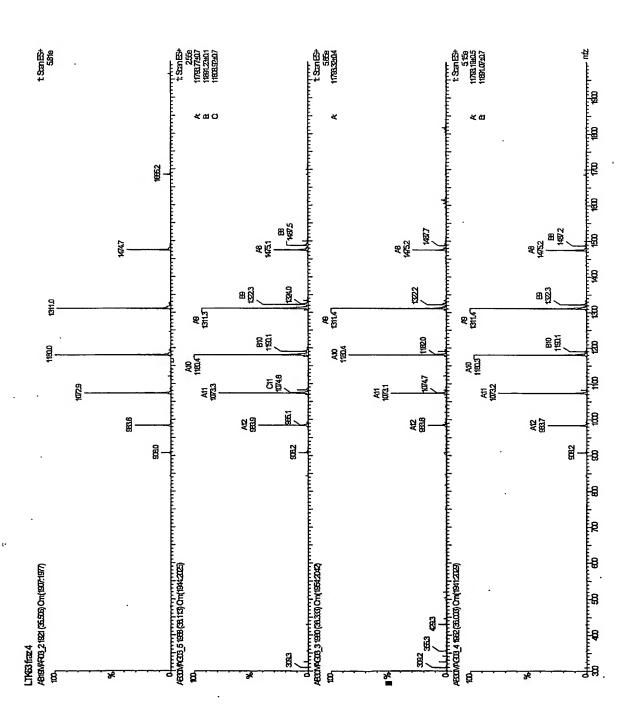


Figure 6: SDS-PAGE analysis of LTK 63 shaken samples

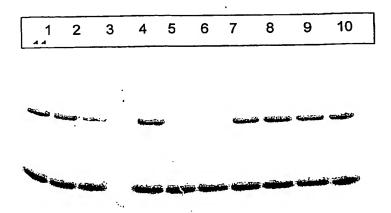


Figure 7: SDS-PAGE analysis of LTK 63 samples treated with CHAPS

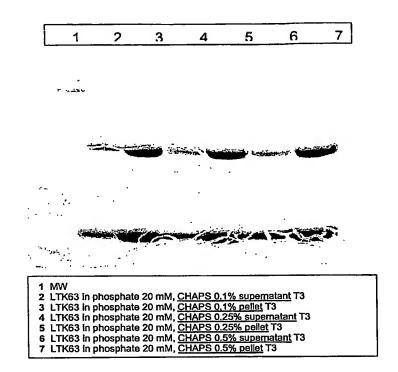


Figure 8: SDS-PAGE of LTK63 samples treated with L-Arginine

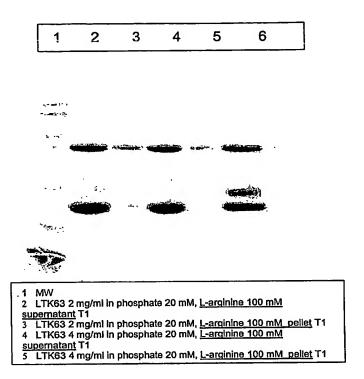


Figure 9(a): Old HPLC Method for analysing L-Arginine treated samples

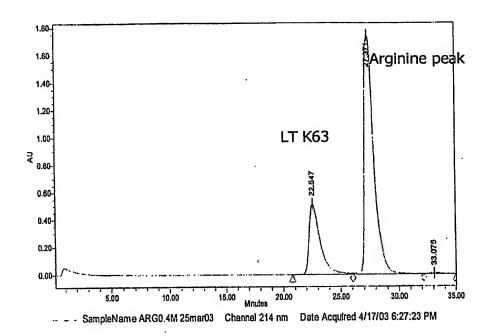


Figure 9(b): New HPLC Method for analysing L-Arginine treated samples

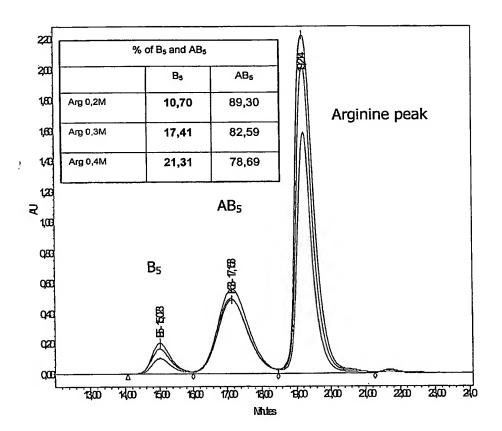


Figure 10(a): Determination of AB5 dissociation in L-Arginine treated samples and the %B5 in LTK63 at 1.3mg/ml

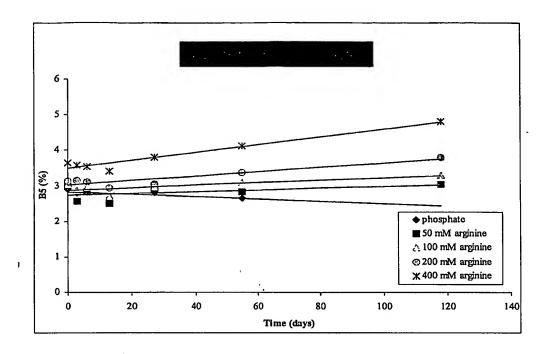


Figure 10(b): Determination of AB5 dissociation in L-Arginine treated samples and the %B5 in LTK63 at 4.0 mg/ml

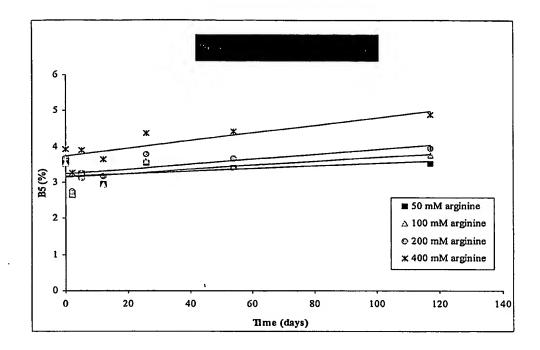


Figure 11(a): CHAPS effect on LTK63 dissociation

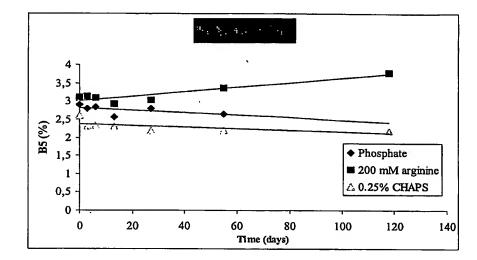


Figure 11(b): CHAPS effect on LT K63 dissociation in combination with L-Arginine

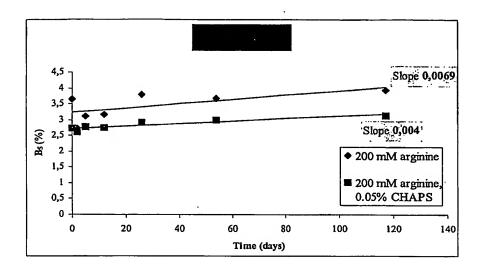


Figure 12: Effect of L-Arginine and CHAPS on LTK 63 stability at a protein concentration of 1,3 mg/ml

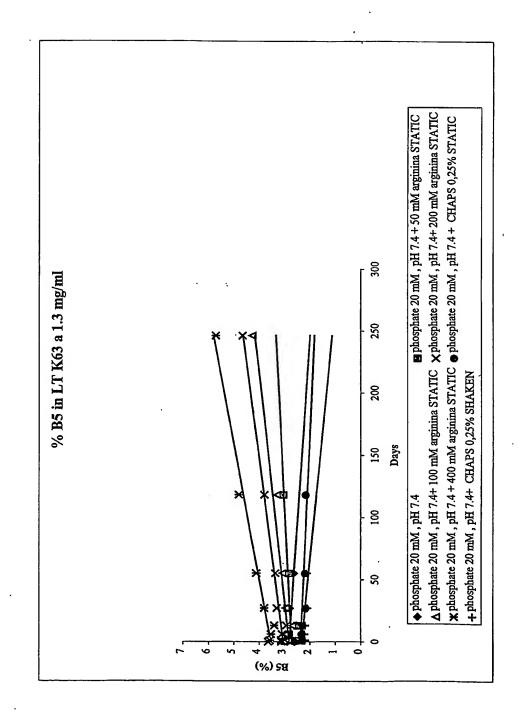
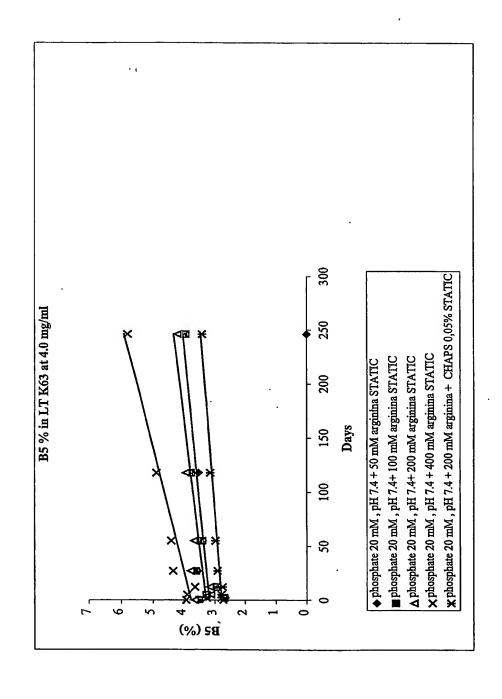


Figure 13: The effect of L-Arginine and the combination L-Arginine/CHAPS on LTK 63 stability at a protein concentration of 4,0 mg/ml



## ·· 23/26

Figure 14 shows the effect of storage conditions on LTK 63 stability in L-Arginine + CHAPS containing buffers

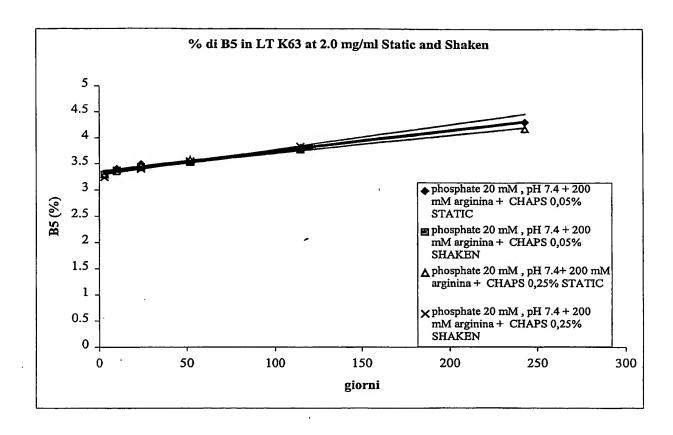


Figure 15: Comparison of LTK 63 stability on L-Arginine and L-Arginine + CHAPS storage buffers

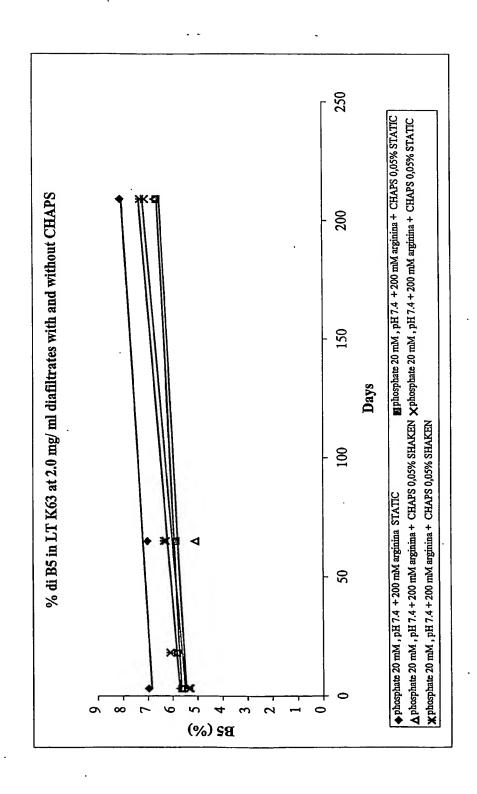


Figure 16

Continued) EMPIGEN BB® (n-dodecyt-N,N-dimethylglyche )	x = 7, ZWITTERGENT® 3-08 x = 9, ZWITTERGENT® 3-10 x = 11, ZWITTERGENT® 3-12 x = 18, ZWITTERGENT® 3-14 x = 15, ZWITTERGENT® 3-16	x = H, CHAPS x = OH, CHAPSO
Table 2. Structure and Classification of Detergents (continued)  CH3  CH3  CH3  CH3  CH3  CH3  CH3  CH	CH <sub>3</sub> GH <sub>3</sub> II CH <sub>3</sub> (CH <sub>2</sub> )x—N <sup>1</sup> —(CH <sub>2</sub> )3—S—O CH <sub>3</sub> CH <sub>3</sub>	
	Zwitterge.rts	

Figure 17

		T PAN									
	size	59,25 g	10 g		5.9	Jm 001	PS Sq	25 g m	25.g.	200 100 100	5g 25g
A Common Management	Average Micellar Weight			7 000 TE					18,500		60,000
	Aggregation No.		4-14						55		<u>155</u>
Scinco	CMICh (mM)		6-10	1 B 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4.3	1.6-2.1	330	41:25 40 F	2-4	0.001	0.01-0.06
is oppositely with the second	M.W. (anhydrous	4347	614.9	68009TF	2995	272.0	279.6	F. 1907 66 - 71	335.6		391.6
19 July 1988	Cat. No.	182750	220201	72020245 10000045	252000	324690	693019	105 159502115 THE	693015	10.000 mg/s/10.000	693023
						lution	(O))30%(So[Ut]O)				
	<b>N</b> .					EMPIGEN BB® Detergent, 30% Solution	amineloxide (LD/ 3-08 Detergent	ZWITTERGENITY 2-110 Developent As The Control of th	ZWITTEBGENT® 3-12 Detergent	ZWITTERGENTY elydbolelogh	ZWITTERGENT®3-16.Detergent
X	Product	ASB-14	CHAPS	CHARSONYTH	DDIMAB	EMPIGEN BB® D	Launidinethyl Zwittergente	ZWITTERGENITE KARASTASIA	ZWITTERGENIT®	ZWITTERGENTS	ZWITTERGENT®

a. Averdee molecular weights are given for defengents composed of mixtures of chain lengths; b. Températures: 20 - 25°C

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